



Recombinant pcrA protein from *Geobacillus stearothermophilus*; Partial

Cat. No.: LBGF-0626-G1952

This product is for research use only and is not intended for diagnostic use.

BASIC INFORMATION

Product Overview

Our Recombinant pcrA protein is sourced from *Geobacillus stearothermophilus* and expressed via specialized heterologous hosts (*E. coli*, yeast, or mammalian cells) to achieve native-like conformation. We prioritize exceptional purity and low endotoxin levels to guarantee reliable performance in your experimental workflows. Detailed quality metrics, including purity and specific biological activity (where available), can be found on the lot-specific Certificate of Analysis (CoA).

Target	pcrA protein
Source Organism	<i>Geobacillus stearothermophilus</i> ; <i>Bacillus stearothermophilus</i>
Gene/Protein Name	pcrA
Protein Sequence	AHLNKEQQEAVRTTEGPLLIMAGAGSGKTRVLTHRIAYLMAEKHVAPWNILAITFTNKAARE MRERVQSLLGGAAEDVWISTFHSVCVRILRRDIDRIGINRNFSILDPTDQLSVMKTILKEKNI DPKKFEPRTILGTISAANKNELLPPEQFAKRASTYYEKVSDVYQEYQQRLLRNHSLDFDDLI MTTIQLFDRVPDVLHYYQYKFQYIHIDEYQDTNRAQYTLVKKLAERFQNICAVGDADQSIY RWRGADIQNILSFERDYPNAKVILLEQNYRST
Protein Region	Partial
UniProt Accession Number	P56255
Biological Activity	Not Test
Protein Family	Helicase family, UvrD subfamily

Applications	ELISA, Western Blot (WB), Immunoprecipitation (IP), Positive Control. Note: Optimal dilutions/concentrations should be determined by the end user.
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CHEMICAL & PHYSICAL PROPERTIES

Molecular Weight	48.6 kDa
Tag&Position	N-terminal 6xHis-SUMO-tagged
Purity	≥90% (SDS-PAGE)
Formulation	1. Liquid Form: Supplied in a default Tris/PBS-based storage buffer supplemented with 5% -50% glycerol. 2. Lyophilized Form: Lyophilized from a Tris/PBS-based pre-lyophilization buffer (pH 8.0) containing 6% Trehalose as a lyoprotectant.
Format	Liquid or Lyophilized powder

HANDLING & STORAGE

Stability&Storage	1. Lyophilized Powder: Stored at -20°C to -80°C, the product is stable for 12 months from the date of receipt. Upon reconstitution, it is stable for up to 1 week at 2-8°C or 3 months at -20°C to -80°C. 2. Liquid Form: Stored at -20°C to -80°C, the product is stable for 6 to 12 months (avoid repeated freeze-thaw cycles). Aliquot upon arrival to prevent degradation.
Reconstitution	For Lyophilized Powder. Always centrifuge tubes before opening to bring the contents to the bottom. Do not vortex. 1. Reconstitute in sterile ddH ₂ O to a stock concentration of 0.1-1.0 mg/mL. 2. Dissolve the protein by gentle pipetting up and down or by inverting the tube. 3. Allow the solution to stand at room temperature for at least 20 minutes to ensure complete reconstitution. 4. Aliquot the reconstituted solution into working volumes and store at -20°C for long-term storage. Avoid repeated freeze-thaw cycles.
Shipping	Lyophilized Form: Shipped at ambient temperature (or with blue ice). Liquid Form: Shipped with blue ice (or on dry ice, depending on stability). Note: Upon receipt, please store the product immediately under the recommended conditions specified on the Certificate of Analysis (CoA).
Lead Time	In-stock Items: Ships within 1-2 business days. Out-of-stock / Custom Orders: 2-4 weeks (Our team will confirm the exact timeline upon or

der placement).

This protein can be fully tailored to your specifications. Our platform directly supports expression host transitions, tag removal, and scalable bulk production.
